Hydrologic Model Manager

Short Name	SCS-CN-based hydrologic simulation package
Long Name	SCS-CN-based hydrologic simulation package
Description	
Model Type	Deterministic Model
Model Objectives	To determine infiltration, runoff volumes, infiltration rate, and runoff hydrograph.
Agency _Office	National Institute of Hydrology, Roorkee 247 667, Uttaranchal, India Louisiana State University, Baton Rouge, LA 70803-6405, U.S.A.
Tech Contact	Dr. Surendra Kumar Mishra, Scientist 'E' National Institute of Hydrology, Roorkee-247 667, Uttaranchal, India
Model Structure	Model is primarily based on the basic proportionality concept of the Soil Conservation Service Curve Number method published in 1956.
Interception	
Groundwater	
Snowmelt	
Precipitation	
Evapo-transpiration	
Infiltration	
Model Paramters	Potential maximum retention, initial abstraction coefficient, and storage routing coefficient
Spatial Scale	Small to mid-size catchments
Temporal Scale	Event-based
Input Requirements	Rainfall hyetograph, antecedent precipitation amount, infiltration data, geomorphological characteristics of the watershed, soil-vegetation-land use complex,
Computer Requirements	A Personal Computer
Model Output	Infiltration and runoff volumes, Infiltration rates and runoff hydrographs.
Parameter Estimatn Model Calibrtn	Optimization by Marquardt least square approach
Model Testing Verification	Verification using empirical relations derived from the calibrated parameters.
Model Sensitivity	Model is sensitive to variation in parameter-values on small agricultural watersheds and insensitive to an urban watershed.
Model Reliabiity	
Model Application	Applied to 8 small agricultural watersheds, 2 mid-size watersheds, 1 micro urban watershed.
Documentation	Model documentation is given in the form of the text, but no documentation for the computer programs.
Other Comments	NIL
Date of Submission	5/1/2001 3:12:51 PM
Developer	

Technical Contact	
Contact Organization	